# CONTENTS

*List of Figures* *xii*
*List of Tables* *xxiii*
Summary xxxi
Résumé xxxii
Zusammenfassung xxxiii
Acknowledgements xxxiv

**CHAPTER 1: INTRODUCTION** **1**
Project backround 1
Project aims 2
This volume 2
Structure of the monograph 3
Locations of burials on the A1 scheme 4
Background information 5
The landscape 5
Archaeological and historical background to the scheme 6
Prehistoric 11
Roman 12
Post-Roman and early medieval 13
Dere Street: continuity of use 14
Previous archaeological investigations 14
Previous evidence for human burial 16
Earlier prehistoric 16
Iron Age 18
Roman 18
Anglian 19
Later Anglo-Saxon and medieval 20
Fieldwork methodology 20
Post-excavation strategy 21
Terminology 21
Types/locations of burial areas 22
Grave catalogues 22
Location of the archives 23

**CHAPTER 2: THE PREHISTORIC BURIALS** **24**
Introduction 24
Killerby 24
Scotch Corner 27
Catterick Racecourse 29
Bowbridge Lane 31
Summary of the A1 prehistoric cremation assemblages 38
Grave goods 38
Bone selection 38
Pyre debris 38
Prehistoric burial in the northern Vale of Mowbray 39

**CHAPTER 3: BURIAL AT BAINESSE CEMETERY AND ITS SURROUNDING AREA** **41**
Introduction 41
Archaeological background 41
Bainesse Cemetery (Field 163C) 43
Dating and phasing 44

The ring ditch 44
Grave catalogue 48
The inhumations 232
The grave cuts 232
Orientation 232
Re-opened or 'stacked' graves 232
Position 232
Decapitated burials 233
Grave furniture 233
Coffins 233
Cists 233
Artefacts from inhumations 234
Nailed footwear 234
Placed ceramic vessels 234
Redeposited ceramic vessels 234
Smashed ceramic vessels 235
Personal adornment 235
Other possible grave goods 235
Animal remains 235
Redeposited human bone 236
Graves containing cremated bone 236
Grave cutting the enclosure ditches 236
Possible grave markers 236
The early medieval inhumation 236
The cremation burials 236
The cremation burial pits 236
Urned cremation burials 237
Artefacts from cremation burials 237
Fragmented ceramic vessels 237
Nailed footwear 237
Personal adornment 237
Cremated animal bone 237
Other possible grave/pyre goods 237
Penannular gully 237
Stratigraphic relationships between cremation burials and other features 238
Field 163E 238
Field 159A 239
The grave cuts 244
Orientation 244
Posture 244
Grave Furniture 244
Coffins 244
Cists 244
Artefacts from graves 244
Field 157 244
Discussion 245
Dating Bainesse Cemetery 245
Radiocarbon dating and Bayesian modelling 245
Unfurnished graves 246
Further chronological modelling 246
Method 247
The beginning of the cemetery 248
Development of the cemetery 249
Spatial modelling 249
Cremation vs inhumation 250

The ring ditch and its role in the cemetery 250
Grave structure 252
Coffins 252
Cists 252
Roofing slabs in cists 253
Intercutting burials and grave marking 253
Grave markers 253
Deliberate recutting: 'stacked' burials 254
Skeletal position 255
Alternative and unusual inhumations 255
Flexed burials 255
Prone burials 256
Decapitation 256
Grave goods 256
Pottery 256
Nailed footwear 259
Items of personal adornment 260
Animal remains 261
Plant remains 263
Cremations 263
The penannular gully 264
Redeposited cremated remains in other burials 264
The burial population 265
Variation of burial practice within the cemetery 265
Localised burial practices 267
Early post-Roman burials 267
The Anglo-Saxon burial 267
Conclusion 268

**CHAPTER 4: BURIALS AT CATARACTONIUM** **269**
Introduction 269
Archaeological background 269
The burials 271
Burial during the early 2nd century 272
Burial during the late 2nd century 276
Perinatal/neonatal burials 277
Brough Park (Field 172) cremation cemetery 280
Burial during the 3rd century 290
Neonatal burials interred in domestic contexts 292
Burial during the late 3rd and 4th centuries 294
Back plot inhumation burials 297
Group burial 324
Cremation burial 327
Disarticulated human remains 330
Discussion 330
Spatial and chronological distribution of burials at *Cataractonium* **330**
Inhumations 331
Infant burials 331
Minority burial customs 331
Group burials 332
Finds from inhumation burials 332
Fish-hooks 332
Coins 332
Nailed footwear 333
Cremation burials 333

Cremation Grave 20106 334
Brough Park (Field 172) cremation cemetery 334
Disarticulated human remains 335
Conclusion 336

**CHAPTER 5: LATE IRON AGE, ROMAN AND EARLY MEDIEVAL BURIALS OUTSIDE BAINESSE AND CATARACTONIUM 337**
Introduction 337
Low Street (Field 261) 337
Discussion 337
Scurragh House (Fields 209–211) 342
Grave catalogue 343
Discussion 359
Graves with stakeholes 359
'Back plot' inhumations 362
Summary 363
Scotch Corner (Fields 228 and 265) 363
Background 363
Late Iron Age/Early Roman 363
Anglo-Saxon 363
Site description 365
Grave catalogue 365
Discussion 370

**CHAPTER 6: HUMAN REMAINS 372**
Introduction 372
Methods 372
Preservation 372
Minimum number of individuals 373
Assessment of age 373
Sex determination 373
Ancestry 373
Metric analysis 373
Non-metric traits 374
Skeletal pathology 374
Dental pathology 374
Comparative populations 374
Prehistoric burials 374
Bowbridge Lane 374
Killerby 377
Catterick Racecourse 377
Scotch Corner 377
Discussion of the prehistoric burials 378
Bainesse Cemetery and surrounding area 382
Bainesse Cemetery 383
Field 163E 383
Field 159A 383
The Marching Camp (Field 157) 383
Discussion of the human remains from Bainesse Cemetery and surrounding areas 383
Inhumations 383
Demography 398
Metric analyses 399
Non-metric traits 400
Pathology 400

Congenital conditions 400
Metabolic disease 402
Trauma 404
Infectious disease 405
Joint disease 408
Neoplastic conditions 415
Miscellaneous pathology 416
Dental health 416
Disarticulated human remains from Bainesse Cemetery 422
Cremation burials from Bainesse Cemetery 422
Burials at *Cataractonium* ***425***
Discussion of the human remains from *Cataractonium* **425**
Inhumations 425
Demography 429
Metrical analyses 430
Non-metric traits 431
Pathology 432
Congenital conditions 432
Metabolic disease 434
Trauma 434
Infectious disease 436
Joint disease 436
Neoplastic conditions 438
Miscellaneous pathology 438
Dental health 439
Disarticulated human remains 443
Cremation burials 443
Burials at other sites 446
Low Street (Field 261) 446
Scurragh House (Fields 209–211) 448
Inhumations 448
Inhumation summary 448
Cremation burials 449
Cremation burial summary 449
Scotch Corner (Fields 228 and 265) 449
Discussion of early medieval burials 452
Comparison of the Roman dataset with contemporary data 452
Inhumations 452
Preservation 452
Demography 452
Metrical analysis 455
Ancestry 456
Roman health 457
Childhood stress 457
Infectious disease 458
Trauma 460
Age-related conditions 461
Roman oral health 463
Roman cremation burials 465

**CHAPTER 7: THE POTTERY** **467**
Introduction 467
Report structure 467
Prehistoric Burials 467
Bowbridge Lane (Field 145) 467

Discussion 470
Roman Burials 470
Bainesse Cemetery and surrounding areas (Fields 163C, 163E and 159A) 470
Pottery wares and vessels associated with funerary activity 470
BB1 and related wares 471
Grey wares 472
Hand-built pottery (CC) 472
Fine wares (samian by GM) 472
Oxidised wares 472
Bainesse chronology 473
Inhumations and ancillary vessels from Bainesse Cemetery 473
Vessel types and size 473
Samian and funerary rites at Bainesse (GM) 474
Numbers of vessels in graves 474
Position of vessels in graves 474
Broken and incomplete pots and other conditions 475
Cremation urns and pyre goods 476
Ring ditch/penannular gully groups 478
Cemetery-related vessels in other features 478
Cemetery pottery by grave 479
Inhumations 479
Cremation burials 482
Cemetery related pottery from other features 484
Penannular gully 12353/12332 484
Ring ditch 12500 484
Pottery from settlement features at Bainesse 484
Enclosure ditch 484
Burials at *Cataractonium* (Fields 172–179) 484
Cataractonium chronology 485
Cremation urns and pyre goods 485
Cataractonium (Fields 172–179) pottery by grave 485
Burials at Scurragh House (Fields 209–11) 486
Scurragh House chronology 486
Scurragh House cemetery pottery by grave 487
Inhumations 487
Other vessels of interest 487
Conclusions 488
Other pottery from the fills of graves and other cemetery related contexts 489
Samian from the fills of graves and other cemetery-related features (GM) 489
Coarse Pottery from the fills of graves and other cemetery related features (RL) 489
Coarse pottery found in context with disarticulated human remains 489
Hand-built later prehistoric and Roman period pottery from Bainesse Cemetery (CC) 489
Features with disarticulated human remains 499
Pottery Catalogue 500
Bowbridge Lane 500
Bainesse Cemetery 500
Cataractonium 503
Scurragh House 503

**CHAPTER 8: GRAVE GOODS AND FURNITURE 504**
Introduction 504
Finds catalogue 504
Prehistoric burials 505
Catalogue 505
Roman burials 505

Introduction 505
Coins 506
Catalogue 509
Dress and personal adornment 510
Brooch 510
Bracelets, armlets and anklets 510
Bracelets 510
Armlet 511
Anklets 511
Finger-rings and loops 513
Amulets 513
Beads and bead strands 515
Buckle 522
Catalogue 522
Footwear 532
Catalogue 534
Equipment 536
Pin 536
Whetstones and polisher 536
Fish-hooks 536
Horse equipment 536
Metal objects of uncertain function 537
Discussion 537
Catalogue 537
Organic finds 537
Club moss string 538
Leather 538
Catalogue 538
Inhumation grave furniture 538
Stone lining 538
Wooden coffins 539
Other grave structures 542
Catalogue 542
Finds from cremation burials 543
Brooch 544
Bracelet 544
Footwear 544
Pipe-clay figurine 544
Nails, funerary bed, and other structural fittings 545
Other pyre goods 548
Discussion 548
Catalogue 548
Summary of Roman grave goods 549
Inhumations 551
Worn items 551
Unworn items 551
Items placed on body or coffin 551
Grave 20476 discussion 551
Cremation Burials 552
Personal adornment 552
Grave goods in male graves 552
Amulets 553
Late Roman/Anglo-Saxon burials 553
Introduction 553
Dress and personal adornment 554

Footwear 554
Inhumation grave furniture 555
Uncertain function 555
Discussion 555
Catalogue 555
Other artefacts from grave backfills 555
Small finds in various materials 556
Beads 556
Vessel glass 556
Querns 558
Lithics 558
Ceramic building material 559
Industrial Waste 560
Conclusion 561

**CHAPTER 9: ENVIRONMENTAL REMAINS 562**
Animal remains 562
Mammals, birds and amphibians 562
Introduction 562
Methodology 562
Results 563
Prehistoric burials 563
Roman burials 563
Discussion 568
Marine shellfish 570
Introduction and method 570
Results 570
Discussion 570
Botanical remains 571
Introduction and method 571
Results 571
Prehistoric burials 571
Bainesse Cemetery and surrounding area 572
Burials at *Cataractonium* ***573***
Burials at other sites 575
Depositional processes 576
Conclusion 578

**CHAPTER 10: SCIENTIFIC ANALYSES 579**
Introduction 579
Stable light isotope analyses 580
A1 scheme human carbon and nitrogen isotope analyses 580
Roman burials 580
Anglian burials 588
Dietary differences 589
Genetic analysis: Potential and future research 589
Radiocarbon dating and Bayesian modelling of Bainesse Cemetery 590
Reservoirs and age offsets 591
Methodological approach 592
Results 595
Conclusions 598

**CHAPTER 11: DEATH, BURIAL, IDENTITY AND BEYOND 600**
Introduction 600

Roman burial in the North of England 600
Previous evidence from Catterick 601
Taphonomy 607
Preservation biases 607
Disarticulated human remains 607
New Roman and early medieval burials in the Vale of Mowbray 609
Bainesse Cemetery 609
Cataractonium 609
Other sites 609
Funerary patterns in the Vale of Mowbray 609
Burial type 610
Cremation burial 610
Inhumations 613
Orientation 619
Position 619
Grave goods: provision and variability 620
Artefacts in cremation burials 620
Grave goods in inhumations 622
Comparisons with Roman Britain 631
Identity 631
Individual identity 632
Occupation 633
Burial location (cemetery vs backplot) 635
Grave markers and intercutting burials 638
Family groupings 639
Minority burial customs 640
Origins and culture 642
Where did people come from? 642
Where did their material culture come from? 643
Can living groups be identified in death? 646
Do Burial Practices reflect religion and beliefs? 647
Infant burial or disposal? 647
Magic nails? 649
'Ritual killing' of objects 649
Paying the ferryman 649
The inclusion of food 650
Light, sound and scent 650
Can we identify Christian burials? 651
Continuity and change 651
Wider patterns across Roman Catterick 651
Transition from 'Late Roman' to 'Anglo-Saxon' burials 652
Beyond 654
Reactions to death in the Vale of Mowbray 654
Future research 656

**REFERENCES** **657**

**APPENDIX A: DATA RESOURCES** **696**
**APPENDIX B: A1 SCHEME SITE LOCATIONS AND CONCORDANCE** **697**

**INDEX OF GRAVES** **700**

**INDEX** **703**